Date: Sat, 8 Jan 94 18:37:53 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #16
To: Info-Hams

Info-Hams Digest   Sat, 8 Jan 94   Volume 94 : Issue   16

Today's Topics:
      Daily Summary of Solar Geophysical Activity for 06 January
      Daily Summary of Solar Geophysical Activity for 07 January
                  Fixing loose BNC connectors on HT's
      Weekly Solar Terrestrial Forecast & Review for 07 January

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 7 Jan 1994 10:41:13 MST
From: swrinde!gatech!usenet.ins.cwru.edu!agate!library.ucla.edu!news.mic.ucla.edu!
unixg.ubc.ca!nntp.cs.ubc.ca!alberta!nebulus!ve6mgs!usenet@network.ucsd.edu
Subject: Daily Summary of Solar Geophysical Activity for 06 January
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

06 JANUARY, 1994

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(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 06 JANUARY, 1994

```
!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 006, 01/06/94
10.7 FLUX=132.1  90-AVG=101        SSN=144      BKI=2233 3202  BAI=009
BGND-XRAY=B4.9     FLU1=2.9E+05  FLU10=1.2E+04  PKI=3333 3312  PAI=011
  BOU-DEV=018,014,025,028,023,018,004,017   DEV-AVG=018 NT     SWF=00:000
 XRAY-MAX= C6.2   @ 0619UT    XRAY-MIN= B3.1   @ 2034UT   XRAY-AVG= B8.2
NEUTN-MAX= +001%  @ 2355UT   NEUTN-MIN= -003%  @ 0040UT  NEUTN-AVG= -0.2%
  PCA-MAX= +0.1DB @ 2355UT     PCA-MIN= -0.8DB @ 0005UT    PCA-AVG= +0.0DB
BOUTF-MAX=55352NT @ 1434UT   BOUTF-MIN=55328NT @ 1916UT  BOUTF-AVG=55340NT
GOES7-MAX=P:+000NT@ 0000UT   GOES7-MIN=N:+000NT@ 0000UT  G7-AVG=+054,+000,+000
GOES6-MAX=P:+117NT@ 1802UT   GOES6-MIN=N:-078NT@ 0620UT  G6-AVG=+077,+025,-033
 FLUXFCST=STD:130,125,120;SESC:130,125,120 BAI/PAI-FCST=010,015,010/015,022,012
    KFCST=0003 5000 0003 5000  27DAY-AP=007,008   27DAY-KP=2223 3221 2232 2212
 WARNINGS=*SWF;*MAJFLR
   ALERTS=**SWEEP:II=2@0621-0629UTC;**SWEEP:II=2@0647-0710UTC
!!END-DATA!!

NOTE: The Effective Sunspot Number for 05 JAN 94 was  63.7.
      The Full Kp Indices for 05 JAN 94 are: 1o 1o 1+ 2-   2o 2- 1o 2o


SYNOPSIS OF ACTIVITY
--------------------

          Solar activity was low. Region 7646 (S08W39) generated
       the majority of the days C-class flares, accounting for six.
       The largest flare of the day was an optically uncorrelated C6
       with an associated Type II radio sweep at 06/0619Z. A new
       Region was assigned: Region 7650 (N04E41).

            Solar activity forecast:  solar activity is expected to be
       low to moderate.

            The geomagnetic field has been at quiet to unsettled
       levels for the past 24 hours.

            Geophysical activity forecast:  the geomagnetic field is
       expected to be unsettled due to numerous small flares.

            Event probabilities 07 jan-09 jan

                              Class M    50/50/50
                              Class X    05/05/05
                              Proton     05/05/05
                              PCAF       Yellow

            Geomagnetic activity probabilities 07 jan-09 jan
```

A. Middle Latitudes

Active	20/20/20
Minor Storm	10/10/10
Major-Severe Storm	01/01/01

B. High Latitudes

Active	20/20/20
Minor Storm	10/10/10
Major-Severe Storm	01/01/01

HF propagation conditions were near-normal over all regions. Minor signal degradation may be sporadically observed on high-latitude circuits over the next several days, but particularly on 08 January. Otherwise, near-normal conditions should persist throughout the next 72 hours.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 06/2400Z JANUARY

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG TYPE
7645	N12W35	083	0140	FSI	18	023	BETA-GAMMA
7646	S09W38	086	0520	EKI	11	036	BETA-GAMMA
7647	S16W48	096	0030	ESO	12	003	BETA
7648	N06E29	019	0510	DKI	10	028	BETA
7650	N04E41	007	0020	BXO	05	004	BETA
7649	S12W27	075					PLAGE

REGIONS DUE TO RETURN 07 JANUARY TO 09 JANUARY

NMBR	LAT	LO
NONE		

LISTING OF SOLAR ENERGETIC EVENTS FOR 06 JANUARY, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
0607	0619	0624			C6.2		170	35	II
0645	0654	0701			C1.4				II
0809	0809	0809					400		

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 06 JANUARY, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
06/0621		0629		RSP	C6.2	17	2	
06/0647		0710		RSP	C1.4	16	2	

INFERRED CORONAL HOLES: LOCATIONS VALID AT 06/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
55	S24E53	S40E47	S30E17	S20E30	022	ISO	NEG	008	10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
05 Jan:	0010	0024	0032	B8.3	SF	7645	N15W04			
	B0105	U0115	A0126		SF	7645	N16W04			
	0350	0402	0407	C1.4						
	0549	0553	0557	B7.0						
	0725	0725	0735		SF	7645	N14W05			
	0743	0743	0746		SF	7646	S09W15			
	0823	0828	0838	C2.8	SF	7645	N17W08			
	0858	0903	0909	C1.9	SF	7646	S11W21			
	1023	1026	1033	C1.5						
	1155	1158	1216	B9.4						
	1321	1329	1332	C1.8	SF	7648	N04E49			
	1359	1407	1420	C1.9	SF	7645	N16W11		38	
	1450	1453	1458		SF	7646	S09W27			
	B1505	U1512	A1515		SF	7645	N13W14			
	1524	1531	1534	C1.4						
	1541	1545	1548	C1.7	SN	7648	N03E47			
	1631	1634	1636	C1.8	SF	7646	S11W26			
	1645	1647	1651		SF	7646	S17W29			
	1656	1657	1702		SF	7648	N02E47			
	1702	1704	1711		SF	7645	N14W09			
	1718	1722	1724	C1.7	SF	7646	S11W24			
	1754	1801	1803	C2.8	1N	7646	S10W24			
	1819	1822	1824	C1.3	SF	7646	S06W26			
	1840	1845	1849	C1.5						
	1929	1933	1935	C1.1						
	1943	1946	1950	C2.4	SF	7646	S05W26			
	2339	2343	2346	B9.8						

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7645:	2	0	0	7	0	0	0	0	007	(25.0)

```
  Region 7646:  6   0   0     8   1   0   0   0    009  (32.1)
  Region 7647:  0   1   0     0   1   0   0   0    001  ( 3.6)
  Region 7648:  2   0   0     3   0   0   0   0    003  (10.7)
Uncorrellated: 5   0   0     0   0   0   0   0    008  (28.6)

 Total Events: 028 optical and x-ray.


EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY
------------------------------------------------------------

 Date   Begin  Max   End  Xray  Op Region  Locn    Sweeps/Optical Observations
------  ----  ----  ----  ----  -- ------ ------   ---------------------------
05 Jan: 0010  0024  0032  B8.3  SF  7645  N15W04   III
        0350  0402  0407  C1.4                    III
        0645  0704  0725  M1.0  1N  7647  S13W23   II,III,V
        0725  0725  0735        SF  7645  N14W05   III,V
        0743  0743  0746        SF  7646  S09W15   III
        0823  0828  0838  C2.8  SF  7645  N17W08   III
        1155  1158  1216  B9.4                    III
        1359  1407  1420  C1.9  SF  7645  N16W11   III,V
       B1505 U1512 A1515        SF  7645  N13W14   III
        1656  1657  1702        SF  7648  N02E47   III
        2339  2343  2346  B9.8                    III

NOTES:
     All times are in Universal Time (UT).  Characters preceding begin, max,
     and end times are defined as:  B = Before,  U = Uncertain,  A = After.
     All times associated with x-ray flares (ex. flares which produce
     associated x-ray bursts) refer to the begin, max, and end times of the
     x-rays.  Flares which are not associated with x-ray signatures use the
     optical observations to determine the begin, max, and end times.

     Acronyms used to identify sweeps and optical phenomena include:

          II        = Type II Sweep Frequency Event
          III       = Type III Sweep
          IV        = Type IV Sweep
          V         = Type V Sweep
          Continuum = Continuum Radio Event
          Loop      = Loop Prominence System,
          Spray     = Limb Spray,
          Surge     = Bright Limb Surge,
          EPL       = Eruptive Prominence on the Limb.


**  End of Daily Report  **
```

Date: Fri, 7 Jan 1994 22:01:43 MST
From: sdd.hp.com!vixen.cso.uiuc.edu!howland.reston.ans.net!agate!library.ucla.edu!news.mic.ucla.edu!unixg.ubc.ca!nntp.cs.ubc.ca!alberta!nebulus!ve6mgs!usenet@network.ucsd.edu
Subject: Daily Summary of Solar Geophysical Activity for 07 January
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

07 JANUARY, 1994

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(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 07 JANUARY, 1994

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 007, 01/07/94
10.7 FLUX=126.3 90-AVG=101   SSN=135   BKI=1001 2011 BAI=002
BGND-XRAY=B3.8   FLU1=5.8E+05 FLU10=1.2E+04 PKI=1113 3121 PAI=006
  BOU-DEV=006,004,004,008,015,004,009,009   DEV-AVG=007 NT   SWF=01:003
 XRAY-MAX= M1.3   @ 0943UT   XRAY-MIN= B2.9   @ 2034UT   XRAY-AVG= B8.2
NEUTN-MAX= +002% @ 2135UT   NEUTN-MIN= -001% @ 2335UT NEUTN-AVG= +0.0%
  PCA-MAX= +0.1DB @ 2345UT   PCA-MIN= -0.3DB @ 1335UT   PCA-AVG= -0.0DB
BOUTF-MAX=55353NT @ 1520UT   BOUTF-MIN=55332NT @ 1911UT BOUTF-AVG=55344NT
GOES7-MAX=P:+000NT@ 0000UT   GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+072,+000,+000
GOES6-MAX=P:+124NT@ 1716UT   GOES6-MIN=N:-056NT@ 0907UT G6-AVG=+095,+025,-027
 FLUXFCST=STD:120,115,110;SESC:120,115,110 BAI/PAI-FCST=015,010,005/022,012,010
    KFCST=0003 5000 0003 5000 27DAY-AP=008,007   27DAY-KP=2232 2212 2124 2211
 WARNINGS=*SWF;*MAJFLR
   ALERTS=**MINFLR:M1.3/1N@0943UTC;**TENFLR:250SFU@1233UTC,DUR=4MIN
!!END-DATA!!

NOTE: The Effective Sunspot Number for 06 JAN 94 was 69.1.
      The Full Kp Indices for 06 JAN 94 are: 3o 3- 3- 3o   3- 3- 1+ 2+

SYNOPSIS OF ACTIVITY

Solar activity was moderate. Region 7646 (S10W51)
produced an M1/1N flare at 07/0943Z and six C-class bursts.

Other regions on the disk remained stable.

Solar activity forecast: solar activity is expected to be low to moderate.

The geomagnetic field has been at quiet levels for the past 24 hours. High latitude stations reported active conditions from 1200-1500Z.

Geophysical activity forecast: the geomagnetic field is expected to be unsettled to active due to moderate flare activity.

Event probabilities 08 jan-10 jan

Class M	30/30/30
Class X	05/05/05
Proton	05/05/05
PCAF	Yellow

Geomagnetic activity probabilities 08 jan-10 jan

A. Middle Latitudes	
Active	35/15/10
Minor Storm	05/05/05
Major-Severe Storm	01/01/01
B. High Latitudes	
Active	35/20/20
Minor Storm	10/10/10
Major-Severe Storm	01/01/01

HF propagation conditions were normal over all regions. Conditions are expected to remain sporadically unstable over the high and polar latitude paths during the next several days. Several weak interplanetary disturbances may be observed from the minor flare activity that has occurred over the last several days. Otherwise, near-normal conditions will persist if these disturbances fail to arrive.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 07/2400Z JANUARY

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG TYPE
7645	N13W49	084	0110	FAO	17	010	BETA-GAMMA

7646 S08W51 086 0400 EKI 11 021 BETA
7647 S15W61 096 0050 ESO 12 004 BETA
7648 N07E17 018 0440 EKI 11 029 BETA
7649 S17W46 081 0010 HRX 01 002 ALPHA
7650 N05E28 007 0040 CSO 07 009 BETA
REGIONS DUE TO RETURN 08 JANUARY TO 10 JANUARY
NMBR LAT   LO
NONE

LISTING OF SOLAR ENERGETIC EVENTS FOR 07 JANUARY, 1994

BEGIN MAX END RGN   LOC   XRAY OP 245MHZ 10CM   SWEEP
 0937 0943 0945 7646 S09W45 M1.3 1N   45
 1231 1241 1257 7646 S04W44 C2.3 SF   250
 2340 2340 2340   100

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 07 JANUARY, 1994

 BEGIN   MAX   END   LOCATION   TYPE   SIZE DUR II IV
06/A2326   07/B1447   S24E12   DSF

INFERRED CORONAL HOLES: LOCATIONS VALID AT 07/2400Z

               ISOLATED HOLES AND POLAR EXTENSIONS
      EAST   SOUTH WEST   NORTH CAR TYPE POL AREA   OBSN
55   S38E56 S38E56 S29E09 S19E13 008 ISO   NEG   017 10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

 Date   Begin Max   End Xray Op Region Locn   2695 MHz 8800 MHz 15.4 GHz
------ ---- ---- ---- ---- -- ------ ------ --------- --------- ---------
06 Jan: 0050 0053 0055 C1.3
        0402 0407 0409 C4.9   200
        0607 0619 0624 C6.2   35
        0645 0654 0701 C1.4
        0746 0759 0803 C4.6 SN 7646 S09W34   30
        1003 1012 1028 C1.4 SF 7646 S09W32
        1236 1240 1245 C4.2 SN 7646 S09W35   99   40
        1428 1434 1444 C2.2 SF 7646 S11W37
        1518 1521 1523 C1.4 SF 7646 S10W36
        1658 1703 1706 B8.5 SF 7646 S09W38
        1725 1738 1801 C1.1 SF 7646 S11W37
        1855 1901 1903 C1.1 SF 7646 S09W39

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7646:	7	0	0	8	0	0	0	0	008	(66.7)
Uncorrellated:	4	0	0	0	0	0	0	0	004	(33.3)

Total Events: 012 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
06 Jan:	0607	0619	0624	C6.2				II,III,V
	0645	0654	0701	C1.4				II
	0746	0759	0803	C4.6	SN	7646	S09W34	III

NOTES:
All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

- II = Type II Sweep Frequency Event
- III = Type III Sweep
- IV = Type IV Sweep
- V = Type V Sweep
- Continuum = Continuum Radio Event
- Loop = Loop Prominence System,
- Spray = Limb Spray,
- Surge = Bright Limb Surge,
- EPL = Eruptive Prominence on the Limb.

** End of Daily Report **

Date: 9 Jan 94 01:21:23 GMT

From: news.sprintlink.net!clark.net!andy@uunet.uu.net
Subject: Fixing loose BNC connectors on HT's
To: info-hams@ucsd.edu

Matthew Rapaport (mjr@crl.com) wrote:
: Some months back (Oct. | Nov.) in MT there was a description of how to
: tighten up on BNC connectors that had gotten loose after many
: connect-disconnect cycles. The problem is that the V shaped inner connector
: becomes loose.

: The article said to squeeze the ends of the inner connector together a little
: bit. It is not clear if you are supposed to take the connector *out* of
: the radio to do this. If so how? In my Alinco, this connector is seated
: very tightly in the plastic insulator. I could try to pry it out, but it
: seems as though I might be detaching it from what ever it is connected to if
: I do...

I have the same problem with my Alinco. From experience, the BNC
connector is the weakest link on the HT. I watched someone resolder the
inner connector...disassembling the radio to get to the BNC connectors
was not a pretty sight; it's pretty well buried.

But back to your problem... I used a tiny screwdriver; the kind you
tighten eyeglasses with; carefully inserted the screwdriver between the
metal and plastic, and pushed toward the center. Repeating for the other
piece of metal. That seemed to help. Nevertheless, I've seen better
quality BNC's than what's used in the Alinco.

andy/k4adl

Date: Fri, 7 Jan 1994 15:31:40 MST
From: sdd.hp.com!vixen.cso.uiuc.edu!howland.reston.ans.net!agate!library.ucla.edu!
news.mic.ucla.edu!unixg.ubc.ca!nntp.cs.ubc.ca!alberta!nebulus!ve6mgs!
usenet@network.ucsd.edu
Subject: Weekly Solar Terrestrial Forecast & Review for 07 January
To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---
January 07 to January 16, 1994

Report Released by Solar Terrestrial Dispatch
P.O. Box 357, Stirling, Alberta, Canada
T0K 2E0
Accessible BBS System: (403) 756-3008

SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

	10.7 cm	HF Propagation					+/- CON		SID				AU.BKSR				DX	Mag	Aurora		
	SolrFlx	LO	MI	HI	PO	SWF	%MUF	%	ENH	LO	MI	HI	LO	MI	HI	%	K Ap	LO	MI	HI
07	125	G	G	F	F	40	+10	70	40	NA	NA	NA	00	05	10	40	2 10	NV	NV	LO
08	120	G	G	P	P	35	00	65	35	NA	NA	NA	02	10	20	30	3 18	NV	LO	MO
09	115	G	G	F	F	30	+05	65	30	NA	NA	NA	01	10	20	30	3 14	NV	NV	MO
10	115	G	G	F	F	30	+10	70	30	NA	NA	NA	01	05	15	35	2 10	NV	NV	LO
11	110	G	G	F	F	30	+10	70	30	NA	NA	NA	01	05	15	35	2 12	NV	NV	LO
12	100	G	G	P	P	20	00	65	20	NA	NA	NA	02	15	25	30	4 20	NV	LO	MO
13	100	G	G	P	P	20	00	65	20	NA	NA	NA	02	15	25	30	4 20	NV	LO	MO
14	105	G	G	F	F	20	+05	65	20	NA	NA	NA	02	10	20	30	3 15	NV	NV	LO
15	110	G	G	F	F	20	+05	65	20	NA	NA	NA	02	10	15	30	2 10	NV	NV	LO
16	110	G	G	F	F	20	00	65	20	NA	NA	NA	02	10	15	30	2 10	NV	NV	LO

PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (07 JAN - 16 JAN)

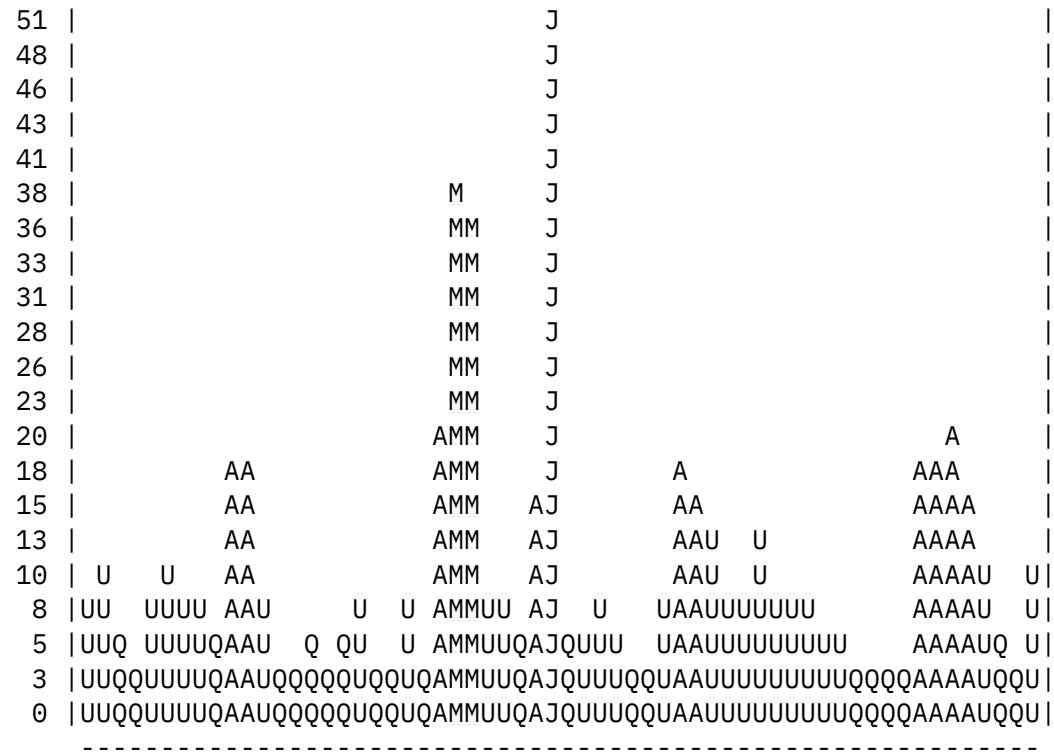
Geomagnetic Field Conditions	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Anomaly Intensity
	Given in 8-hour UT intervals										
EXTREMELY SEVERE											HIGH
VERY SEVERE STORM											HIGH
SEVERE STORM											MODERATE
MAJOR STORM											LOW - MOD.
MINOR STORM											LOW
VERY ACTIVE											NONE
ACTIVE		**	**			*	*				NONE
UNSETTLED	*	***	***	**	***	***	***	***	**	**	NONE
QUIET	***	***	***	***	***	***	***	***	***	***	NONE
VERY QUIET	***	***	***	***	***	***	***	***	***	***	NONE

CONFIDENCE LEVEL: 65%

NOTES:

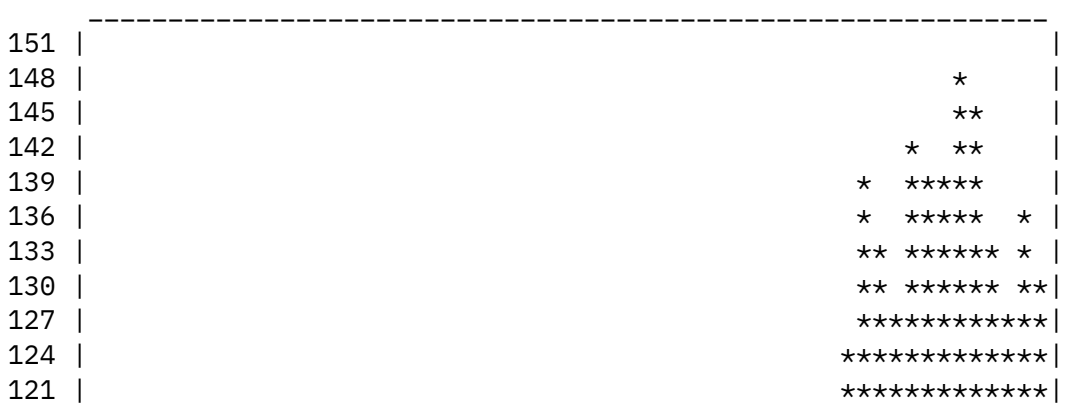
Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

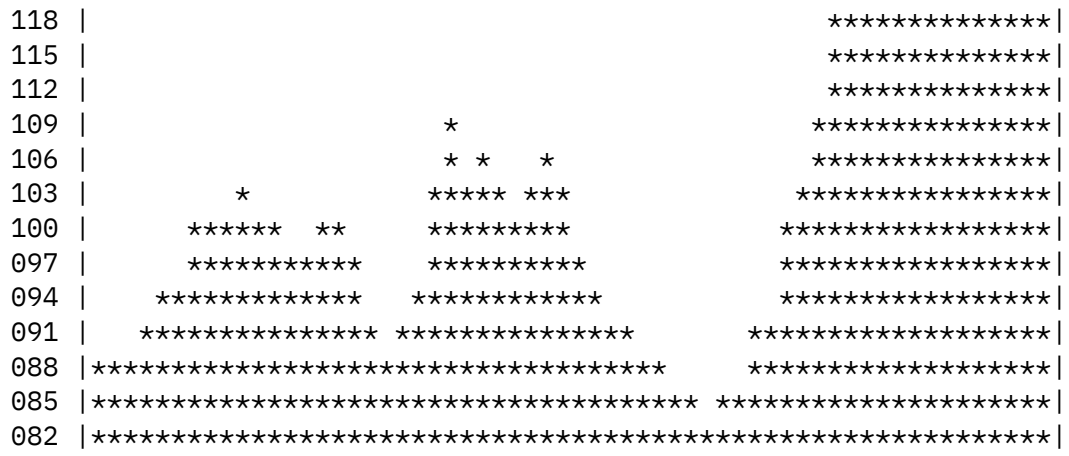
60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY



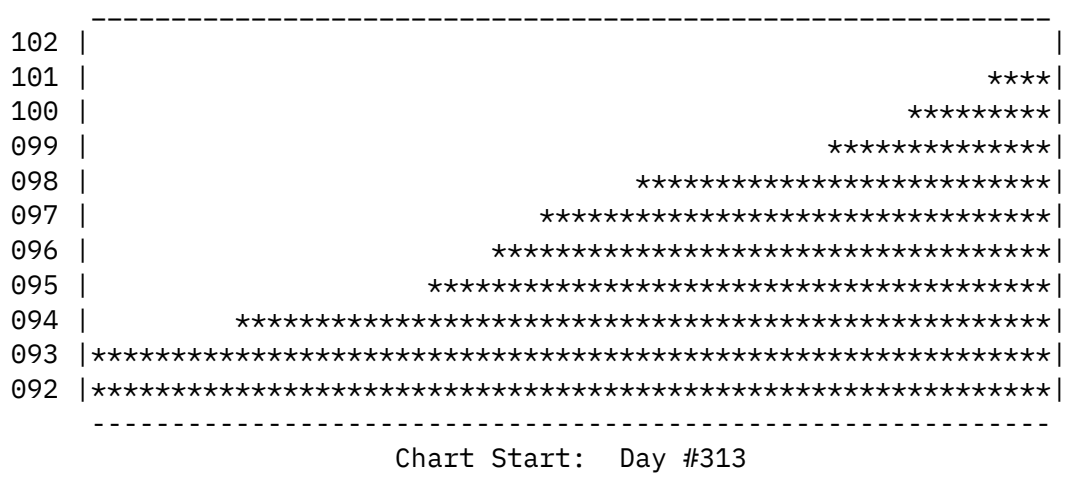
NOTES:
This graph is determined by plotting the greater of either the planetary A-index or the Boulder A-index. Graph lines are labelled according to the severity of the activity which occurred on each day. The left-hand column represents the associated A-Index for that day.
Q = Quiet, U = Unsettled, A = Active, M = Minor Storm,
J = Major Storm, and S = Severe Storm.

CUMULATIVE GRAPHICAL CHART OF THE 10.7 CM SOLAR RADIO FLUX





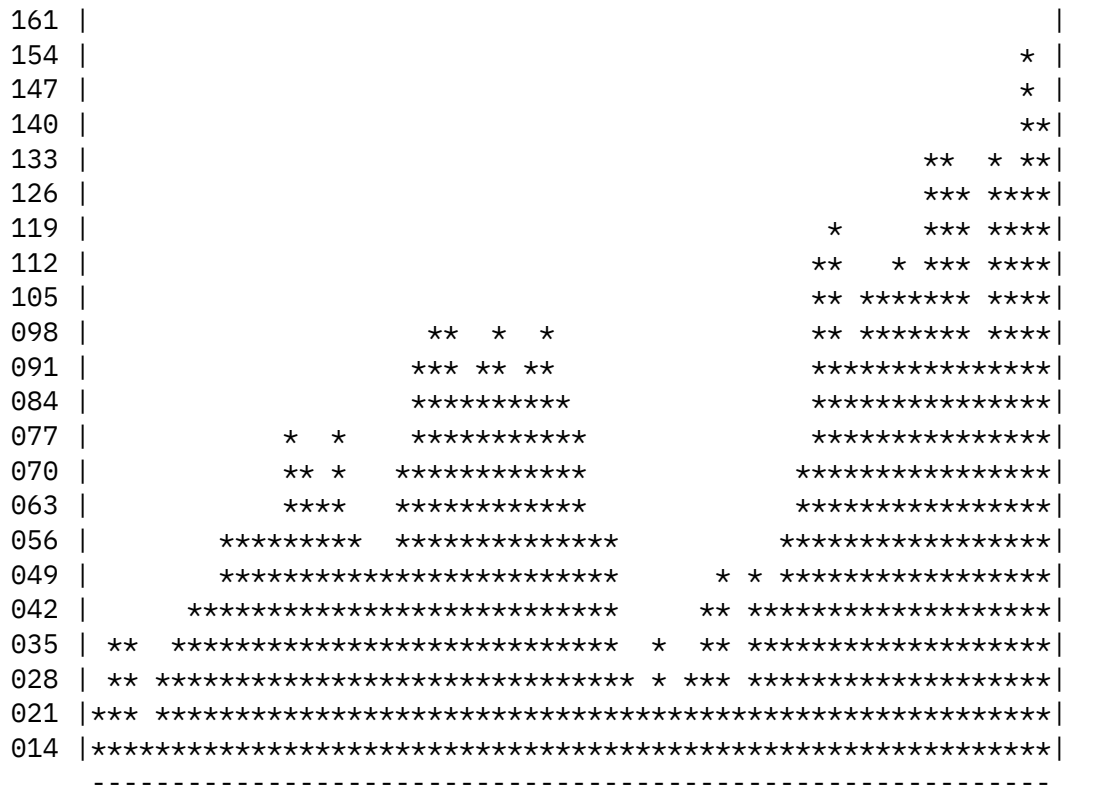
GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX



NOTES:

The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa). High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun. The 90-day mean solar flux graph is charted from the 90-day mean of the 10.7 cm solar radio flux.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS



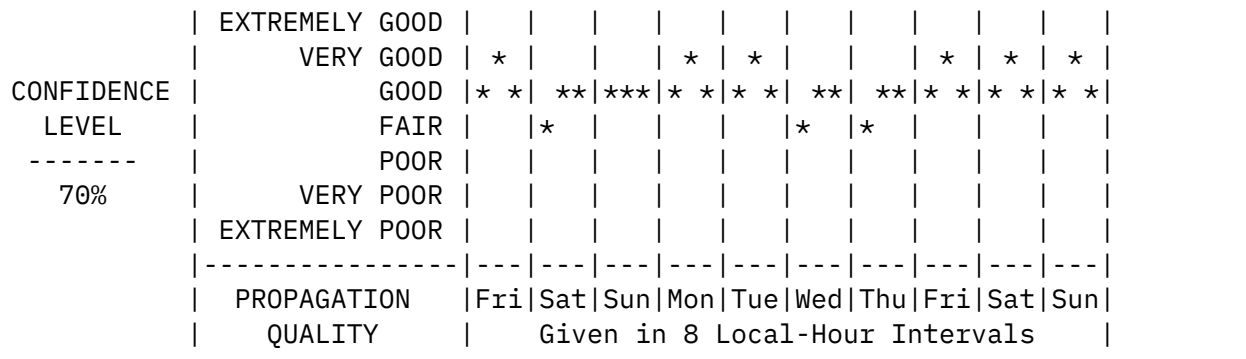
NOTES:
The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

HF RADIO SIGNAL PROPAGATION PREDICTIONS (07 JAN - 16 JAN)

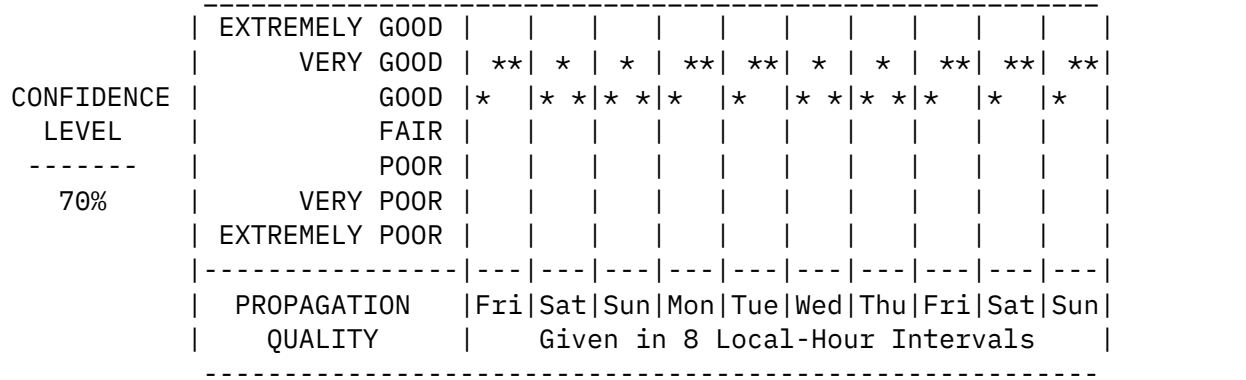
High Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD										
	GOOD										
	FAIR	***	**	**	***	***	**	**	***	***	***
	POOR		*	*			*	*			
65%	VERY POOR										
	EXTREMELY POOR										
	PROPAGATION QUALITY	Given in 8 Local-Hour Intervals									

Middle Latitude Paths



Low Latitude Paths



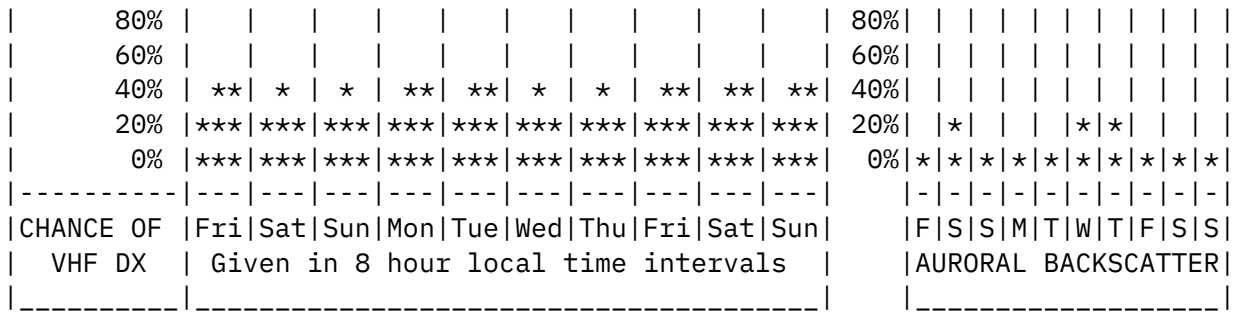
NOTES:

NORTHERN HEMISPHERE		SOUTHERN HEMISPHERE	
High latitudes >= 55	deg. N.	High latitudes >= 55	deg. S.
Middle latitudes >= 40 < 55	deg. N.	Middle latitudes >= 30 < 55	deg. S.
Low latitudes < 40	deg. N.	Low latitudes < 30	deg. S.

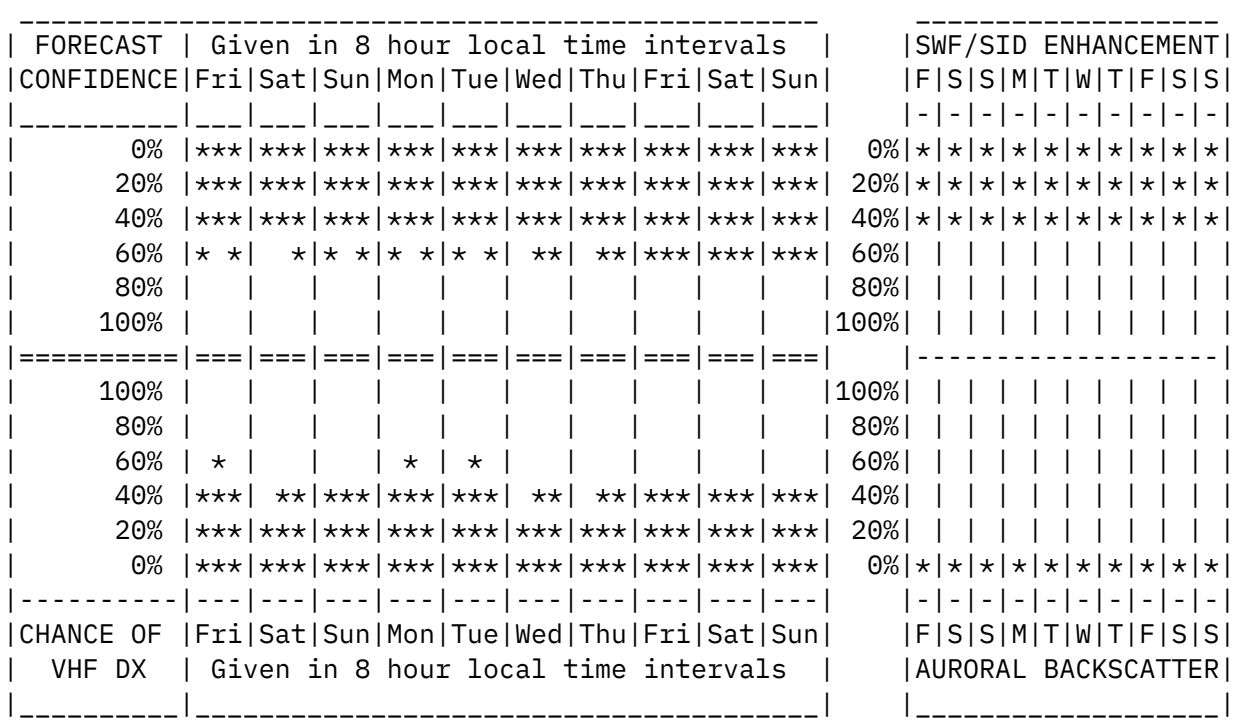
POTENTIAL VHF DX PROPAGATION PREDICTIONS (07 JAN - 16 JAN)
INCLUDES SID AND AURORAL BACKSCATTER ENHANCEMENT PREDICTIONS

HIGH LATITUDES

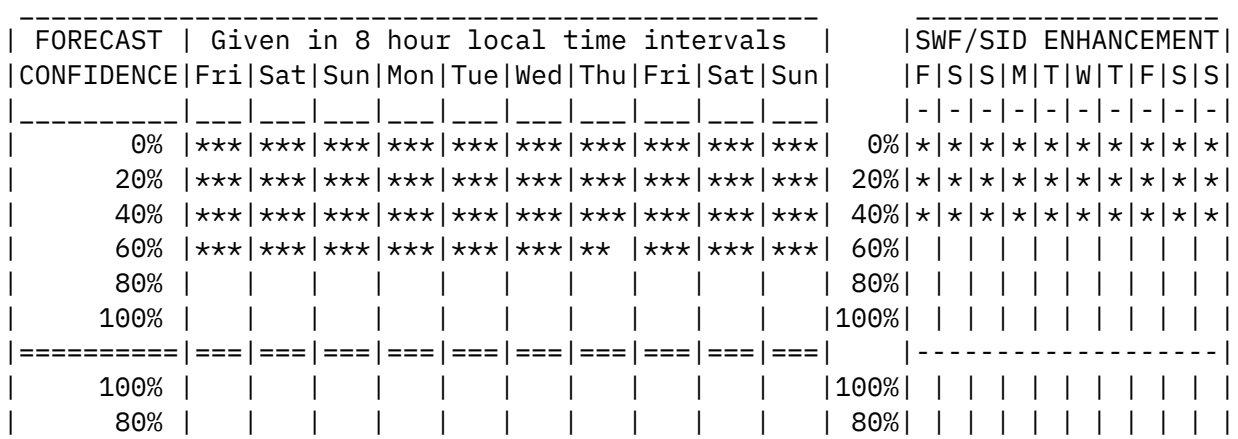
FORECAST CONFIDENCE	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT									
	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%										
60%	*	*	*	*	*	*	*	*	*	*	60%										
80%											80%										
100%											100%										
100%											100%										

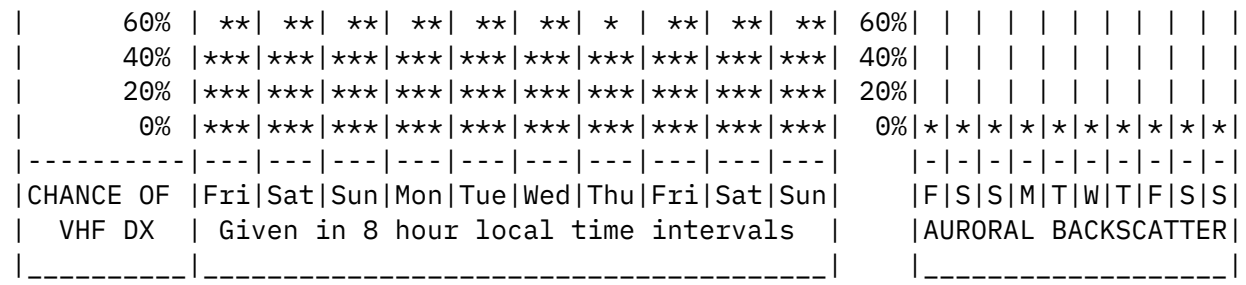


MIDDLE LATITUDES



LOW LATITUDES

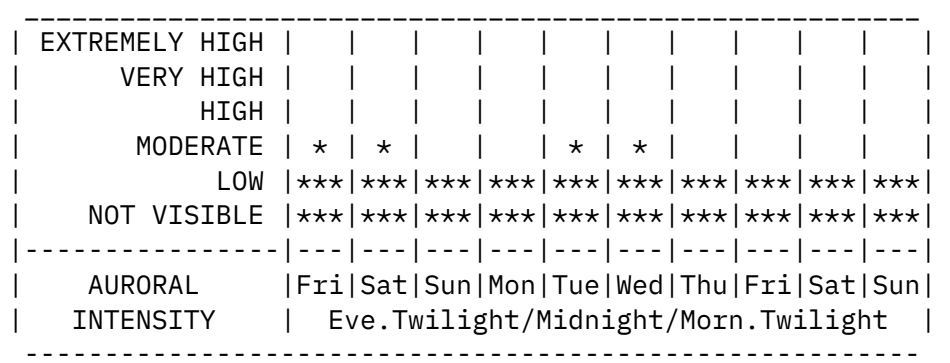




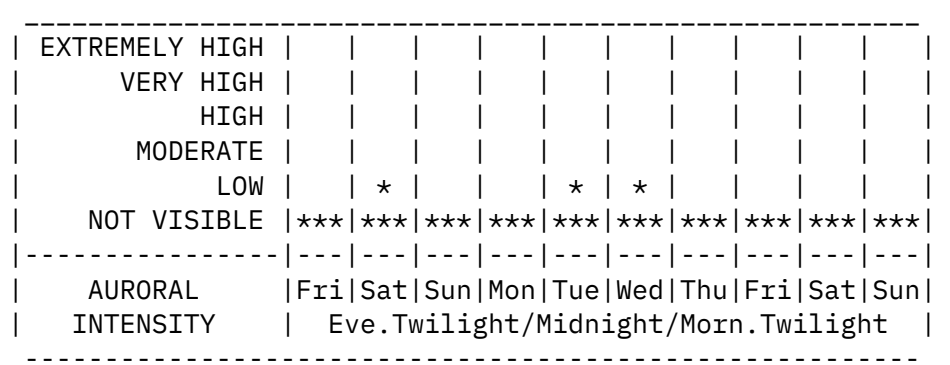
NOTES:
      These VHF DX prediction charts are defined for the 30 MHz to 220 MHz bands. They are based primarily on phenomena which can affect VHF DX propagation globally. They should be used only as a guide to potential DX conditions on VHF bands. Latitudinal boundaries are the same as those for the HF predictions charts.

AURORAL ACTIVITY PREDICTIONS (07 JAN - 16 JAN)

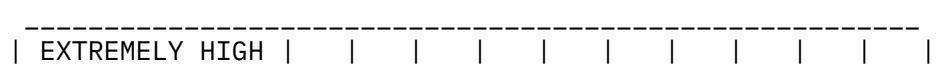
High Latitude Locations



Middle Latitude Locations



Low Latitude Locations



```
CONFIDENCE |      VERY HIGH |   |   |   |   |   |   |   |   |   |   |
  LEVEL    |           HIGH |   |   |   |   |   |   |   |   |   |   |
 -------   |       MODERATE |   |   |   |   |   |   |   |   |   |   |
   80%     |            LOW |   |   |   |   |   |   |   |   |   |   |
           |    NOT VISIBLE |***|***|***|***|***|***|***|***|***|***|
           |----------------|---|---|---|---|---|---|---|---|---|---|
           |    AURORAL     |Fri|Sat|Sun|Mon|Tue|Wed|Thu|Fri|Sat|Sun|
           |   INTENSITY    |  Eve.Twilight/Midnight/Morn.Twilight  |
            ------------------------------------------------------
```

NOTE:
     Version 2.00b of our Professional Dynamic Auroral Oval Simulation Software Package is now available. This professional software is particularly valuable to radio communicators, aurora photographers, educators, and astronomers. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

     For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

** End of Report **

End of Info-Hams Digest V94 #16
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